

What is claimed is:

1. A liquid supply method that prepares a solution by supplying a supply liquid to a primary fluid that is circulating in a primary fluid circulation tube, that uses

a liquid supply apparatus that comprises:

- 5                   a supply section that delivers the supply liquid; and  
                     a supply liquid circulation tube that causes the supply liquid to flow  
                     from the supply section to the primary fluid circulation tube, the internal  
                     diameter of the supply liquid circulation tube being between 0.01 and 1 mm,

wherein

- 10           when the supply solution is supplied from the supply section to the primary fluid  
               circulation tube via the supply liquid circulation tube, a pressure P1 of the supply liquid  
               in the supply section and a pressure P2 of the primary fluid in the primary fluid  
               circulation tube satisfy a formula  $P1 - P2 > 0$ .

- 15   2.       The liquid supply method according to claim 1, wherein the supply liquid  
               circulation tube is formed in a hollow fiber shape.

3.       The liquid supply method according to claim 1, wherein the primary fluid is  
               ultrapure water, and the supply liquid is an electrolytic aqueous solution.

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4.       The liquid supply method according to claim 3, wherein  $P1/P2 = 1.01$  to 10.

5.       The liquid supply method according to claim 3, wherein an electrolyte  
               concentration of the primary fluid to which the supply liquid is supplied is between

25   0.00001 and 0.1 percent by mass.

6. The liquid supply method according to claim 3, wherein a supply quantity of the supply liquid is between 0.001 and 10 cm<sup>3</sup>/ minute.

5 7. The liquid supply method according to any one of claims 2 to 6, wherein a ratio X/Y between a flow quantity X of the supply solution and a flow rate Y of the primary fluid is between 1/1000000 and 1/1000.

8. A liquid supply apparatus that prepares a solution by supplying a supply liquid  
10 to a primary fluid that is circulating in a primary fluid circulation tube, the liquid supply apparatus comprising:

a supply section that delivers the supply liquid; and

a supply liquid circulation tube that causes the supply liquid to flow from the supply section to the primary fluid circulation tube, the internal diameter of the supply  
15 liquid circulation tube being between 0.01 and 1 mm, wherein

when the supply solution is supplied from the supply section to the primary fluid circulation tube via the supply liquid circulation tube, a pressure P1 of the supply liquid in the supply section and a pressure P2 of the primary fluid in the primary fluid circulation tube satisfy a formula  $P1 - P2 > 0$ .

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9. The liquid supply apparatus according to claim 8, wherein the supply liquid circulation tube is formed in a hollow fiber shape.